## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38950

		<u> </u>		
A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C12Q 1/68; C12N 15/63  US CL : 435/6, 455				
According to	International Patent Classification (IPC) or to both nat	ional classification and IPC		
	OS SEARCHED			
Minimum doc U.S. : 43	cumentation searched (classification system followed b 85/6, 455	y classification symbols)		
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
	ta base consulted during the international search (name us, Medline, Embase, Biosis	e of data base and, where practicable, sear	ch terms used)	
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
x	Mansell, A. et al. "The serine protease inhibitor anti	thrombin III inhibits LPS-mediated NF-	1	
х	kappaB activation by TLR-4", November 2001, FEBS letters, Vol. 508: pp.313-317. Yoshimura, A. et al. "Lipopolysaccharides from Periodontopathic Bacteria Porphyromonas gingivalis and Capnocytophaga achracea Are Antagonists for Human Toll-Like Receptor 4", Jan. 2002, Vol. 70: pp. 218-225.		1.	
X, P	Ohta, S. "Identification of a novel isoform of MD-2	that downregulates lipopolysaccharide	1, 4, 5-6.	
X	signaling", November 2004, Biochem. Biophys. Res. Comm., Vol. 323: pp.1103-1108. Su, B. et al., "Heliobacter pylori Activates Toll-Like Receptor 4 Expression in		1, 8.	
•-	Gastrointestinal Epithelial Cells", June 2003, Infec.	Immun., Vol. 71: pp. 3496-3502.		
х	Hatakeyama, J. "Contrating responses of human gingival and periodontal ligament fibroblasts to bacterial cell-surface components through the CD14/Toll-like receptor system", Feb. 2003, Oral Micro. Immun., Vol. 18: pp. 14-23.		1, 8.	
x	WO 03/035110 A1 (Arditi et al) 1 May 2003 (1.05.2003), pages 5-8.		1-6, 8.	
X,P	WO 2004/093778 (Cohen et al) 4 November 2004 (0 especially pages 4-9.	4.11.2004), see entire document,	1-4	
<b>5</b> 7				
Kurther	documents are listed in the continuation of Box C.	See patent family annex.		
	pecial categories of cited documents:  defining the general state of the art which is not considered to be	"T" later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the	
of particular relevance  "E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as		when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
specified)  "O" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
19 March 2005 (19.03.2005)				
Name and mailing address of the ISA/US		Authorized officer flaught		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Michael D. Burkhart		
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ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
Α	US 6,740,487 B1 (Schwartz et al) 25 May 2004 (25.05.2004)	1-17
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